

# Transportation



Series	IL-AG5	MX19	MX23A	MX31	MX34	MX36	MX37	MX39/MX45	MX44
Photo									
Pitch	2.5mm	2.5mm	2.5mm	Signal: 2.2mm Power: 3.2mm	2.2mm	2.5mm	2.2mm	2.2mm	3.5mm
Wire Size	AWG #22-18  AV, AVS, AVSS: 0.3 to 0.5mm <sup>2</sup> AVS, AVSS: 0.85mm <sup>2</sup>	AWG #22-20  CAVS: 0.3 to 0.5mm <sup>2</sup> AVSS: 0.5mm <sup>2</sup>	AWG #22-16  AVSS, AVS: 0.5 to 1.25mm <sup>2</sup>	Signal: AWG #22-20 Power: AWG #22-16 Signal: AVS, AVSS, AVX 0.3 to 0.5mm <sup>2</sup> Power: AVS, AVSS, AVX 0.3 to 1.25mm <sup>2</sup>	AWG #22-20  AVSS: 0.3, 0.5mm <sup>2</sup> CHFUS: 0.22 to 0.35mm <sup>2</sup> , 0.5 to 0.75mm <sup>2</sup> CAN SD: 0.35mm <sup>2</sup>	AWG #20  AVSS 0.5, AVSS 0.5F, AVSSX 0.5f, TVSSX 0.5f	AWG #20  AVSS 0.5, AVSS 0.5F, AVSSX 0.5f, TVSSX 0.5f	AWG #28 Twin Ax	AWG #22-20  AVSS 0.3 to 0.5mm <sup>2</sup>
Pin Count	1 row: 4,5,6, 7,10 2 rows: 14,16, 18,22,30	2, 4	12, 18, 26, 34, 36	Pin: 70,98,104,135 Socket: 31,34,35	3,5,7,12,16,20, 24,28,32,36,40	2, 4	4	4	2, 4, 6
Current Rating	3A	5A	3A	Signal: 2.2A Power: 5.7A	3A	3A	3A	500mA	3A
Operating Temperature	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +125 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +105 °C	-40 ~ +105 °C	-40 ~ +85 °C	-40 ~ +125 °C
Application	Cable to Cable/ Board to Cable	Cable to Cable	Board to Cable	Board to Cable	Board to Cable	Cable to Cable	Cable to Cable	Cable to Cable/ Board to Cable	Board to Cable
Features	Mechanical lock system enabling complete mating. Secondary lock mechanism to ensure correct terminal retention. Simplified crimp type termination.	Waterproof. Mechanical lock system. Grommet seal. Terminals have low insertion force and stress dispersion. Rear cover protects the grommet from damage.	Waterproof. Low profile. Available in reverse mount type. Retainer detects incomplete insertion of socket contact.	Mechanical lock system with audible click. Socket side contact designed with secondary lock. Simplified crimp type termination.	Lightweight. Mating and unmating force less than 80N. Closed box socket contact increases mechanical strength. Preset retainer allows easy wire harness assembly.	Waterproof. Spring separates connectors if not correctly mated. Shorting contact eliminates static discharge. Retainer detects incomplete insertion of socket contact.	Mechanical complete mating method. Spring separates connector if not correctly mated. Shorting contact eliminates static discharge. Retainer detects incomplete insertion.	USB 2.0 compatible. Sold as a complete harness with USB standard receptacle.	Single contact waterproof. Compact size. Improved vibration resistance by vibration absorption function of rubber. Secondary lock mechanism.

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Socket Housing: <b>IL-AG5-#S- S3C1</b>	Contacts: IL-AG5-C1-5000 (socket) IL-AG5-PC1-5000 (pin)
Pin housing: <b>IL-AG5-#P- S3C1</b>	Hand tool: CT150-1-AG5 Semi auto: 3502-AG5-2 Automatic: 350-AG5-3B
Pin header: <b>IL-AG5-#P- S3L2</b>	

S: single row  
D: double row  
L: right angle  
T: straight

Socket housing: <b>MX3600#SQ3</b>	Contacts: M36S08K4Q3 (socket) M36P08K4Q3 (pin)
Pin housing: <b>MX3600#PQ3</b>	Semi auto: 350-MX36-2 Automatic: 350-MX36-3B
Front cap: <b>MX36004XF3</b>	

Socket housing: <b>MX1900#S51</b>	Contacts: MX19S10K451 (socket) MX19P10K451 (pin)
Pin housing: <b>MX1900#P51</b>	Hand Tool: CT150-4C-MX19 Semi auto: 3502-MX19-2B

1: Black  
2: Gray

Socket housing: <b>MX37004SP3</b>	Socket Contacts: M37S07K4P3	Pin Contacts: M37P75C4P3
Pin housing: <b>MX37004PP3</b>	Semi Auto: 350-MX37S-2	350-MX37P-2
	Automatic: 350-MX37S-3B	350-MX37S-3B

Socket housing: <b>MX23A##SF1</b>	Contacts: M23S05K351 Dummy Pin: M120-55780
Pin header: <b>MX23A##NF1</b>	Hand tool: CT160-3B-MX23 Semi auto: 350-MX23-2
Front cap: <b>MX23A##XF1</b>	

1: Standard  
2: Reverse

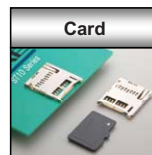
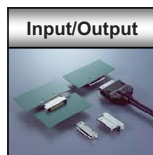
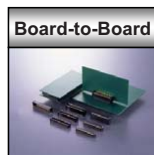
Socket housing: <b>MX44###SF1</b>	Contacts: M44S05K4F1
Pin header: <b>MX44###NF1</b>	Hand Tool: CT150-2-MX44
Retainer: <b>MX44###XR1</b>	Semi Auto: 3502-MX44-2
Wire seal: <b>MX44000XP1</b>	Wire O.D. 1: 1.4-1.5mm 2: 1.6-1.7mm

Socket housing: <b>MX340##SF1</b>	Pin header: <b>MX340##UF1</b>		
	U: Straight N: Angled		
	1: 3-24 pos 2: 28-40 pos		
Contacts	Hand Tool	Semi auto	Automatic
M34S75C4F1	CT150-2-MX34	350-MX34D-2	350-MX34B-3B
M34S75C4F2	CT150-1-MX34	350-MX34D-2	350-MX34B-3B
M34S75C4F3	N/A	350-MX34C-2	350-MX34C-3B
M34S75C4F4	N/A	350-MX34C-2	350-MX34C-3B

Socket housing: <b>MX31 0## SG A</b>	31, 34, 35 pos	Modification code	
Pin header: <b>MX31 ### N F D</b>	70, 104, 135 pos	Modification code	
	F: All Sn plated contacts Q: Selective gold plated contacts		
Contacts	Wire (AWG)	Semi Auto	Automatic
M31S07K4FA (Sn, signal)	#22-20	350-MX31A-2	350-MX31A-3B
M31S07K4QA (Au, signal)	#22-20	350-MX31A-2	350-MX31A-3B
M31S07K4FB (Sn, signal)	#24	350-MX31A-2	350-MX1A-3B
M31S05K3FA (Sn, power)	#18-16	350-MX31B-2	350-MX31B-3B
M31S05K4FA (Sn, power)	#22-18	350-MX31B-2	350-MX31B-3B
M31S05K4QA (Au, power)	#22-18	350-MX31B-2	350-MX31B-3B

Board Mounting Receptacle: <b>MX39004NQ1</b>
USB Harness: <b>MX45004S0008397</b> (150mm)

## Other Product Offerings



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